

# PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 511513

A REPAIR

DISTRICT \_\_\_\_\_

DATE 4/14/99

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
~~XXXXXXXX~~ 410-313-2640

DATE SYSTEM APPROVED \_\_\_\_\_

INSPECTOR \_\_\_\_\_

## INDEXED

W.R.F. & Son Plumbing IS PERMITTED TO INSTALL \_\_\_\_\_ ALTER

ADDRESS 15 North Main Street, Mt. Airy, Maryland 21771 PHONE 301-829-1711

SUBDIVISION \_\_\_\_\_ LOT \_\_\_\_\_ ROAD 417 Twin Arch Road

PROPERTY OWNER Evelyn Smith

ADDRESS 417 Twin Arch Road  
Mt. Airy, Maryland 21771

SEPTIC TANK CAPACITY \_\_\_\_\_ GALLONS

NUMBER OF BEDROOMS \_\_\_\_\_

\_\_\_\_\_ SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED \_\_\_\_\_

NO EVIDENCE OF  
INTENT TO CONTINUE  
INDEX TO  
"NO SYSTEM INSTALLED"  
1/06/2000 CW

(PS, see  
also 1988  
PLAN FOR  
EXPERIMENTAL  
AT-67 QDB  
SYSTEM)

REPAIR - PURPOSE - TO INSTALL PLUMBING IN EXISTING RESIDENCE CURRENTLY WITHOUT SAME.

Call for inspection when ground is opened so sanitarian can recommend repair.

SITE CONDITIONS NOT SUITED TO CONVENTIONAL TRENCH INSTALLATION NOR RECOGNIZED ALTERNATIVES 10/27/98

- COMPLETE HOLDING TANK AGREEMENT,  
THEN OK TO INSTALL 1500 GALLON,  
WATER TIGHT HOLDING TANK WITH  
HIGH WATER ALARM.

PLANS APPROVED BY C. W. Whelan DATE 11/5/98

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS. 90° ELBOWS NOT ACCEPTABLE.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

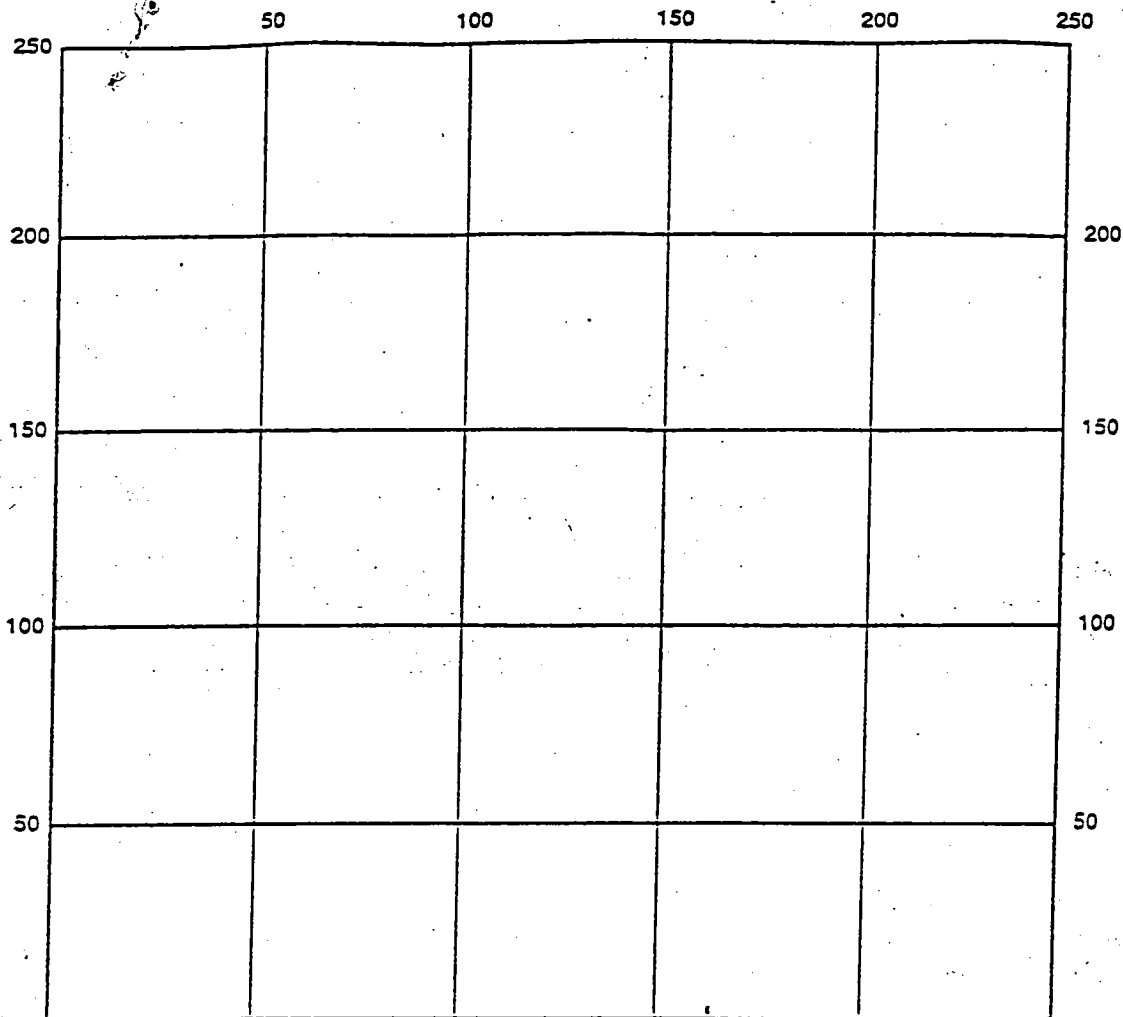
PERMIT VOID AFTER TWO YEARS

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

511513



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL \_\_\_\_\_ CLEANOUTS \_\_\_\_\_

DISTRIBUTION BOX LEVEL \_\_\_\_\_

DRAIN FIELD/TITLE DEPTH \_\_\_\_\_ FT. TRENCH WIDTH \_\_\_\_\_ FT. INLET DEPTH \_\_\_\_\_ FT.

EFFECTIVE GRAVEL DEPTH \_\_\_\_\_ FT. TOTAL LENGTH \_\_\_\_\_ FT.

NUMBER OF TRENCHES \_\_\_\_\_ ONE SIDEWALL/BOTTOM AREA \_\_\_\_\_ SQ. FT.

DRYWALL INSIDE DIAMETER \_\_\_\_\_ FT. EFFECTIVE DEPTH BELOW INLET \_\_\_\_\_ FT.

ABSORBENT AREA \_\_\_\_\_ SQ. FT.

REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DATE SYSTEM APPROVED \_\_\_\_\_ INSPECTOR \_\_\_\_\_

To Craig  
Date 4/8/99 Time 3:00  AM  PM

## WHILE YOU WERE OUT

M Vicki  
of WRS & Sons  
Phone (410) 795-0331  
Area Code Number Extension

TELEPHONED	<input type="checkbox"/>	PLEASE CALL	<input checked="" type="checkbox"/>
CALLED TO SEE YOU	<input type="checkbox"/>	WILL CALL AGAIN	<input type="checkbox"/>
WANTS TO SEE YOU	<input type="checkbox"/>	URGENT	<input type="checkbox"/>
RETURNED YOUR CALL		<input type="checkbox"/>	

Message RE Evelyn Smith

EVIDENCE OF  
- N66D, RECORDED, RECORDED,  
& SERVICE CONTRACT  
- ALSO ADVISED WRT THAT CHIPS  
WAS ADVISED TO HAVE Operator



AMPAD  
EFFICIENCY®

HIS TAWCK CERTIFIBB IN

HOWARD COUNTY...

REORDER  
#23-000

*Revised Perce*  
6/30/80  
1:30 p.m.

# APPLICATION

13449

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES  
PO BOX 478 ELLICOTT, MARYLAND 21043  
TELEPHONE 802-2330

*INDEXED  
more info  
on HA test and  
recommendation*

DISTRICT 4th  
DATE 6/30/80

TO THE COUNTY HEALTH OFFICER  
ELLICOTT CITY MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM

PROPERTY OWNER Mr. Olla G. Dorsey

ADDRESS 417 Twin Arch Road, Mt. Airy, Md. 21771

PROPERTY LOCATION

SUBDIVISION

ROAD AND DESCRIPTION 417 Twin Arch Road

SIZE OF LOT APPROX. 160' X 130'  
7 TX MAP 1 GRID 18 PARCEL 11 TYPE BLDG

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.  
I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES.

SIGNATURE OF APPLICANT /s/ Bud Arnold for Olla G. Dorsey

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

REJECTED BY Stephen H. Keegan OR any system DATE 6-30-80  
Dist. 8-1-78

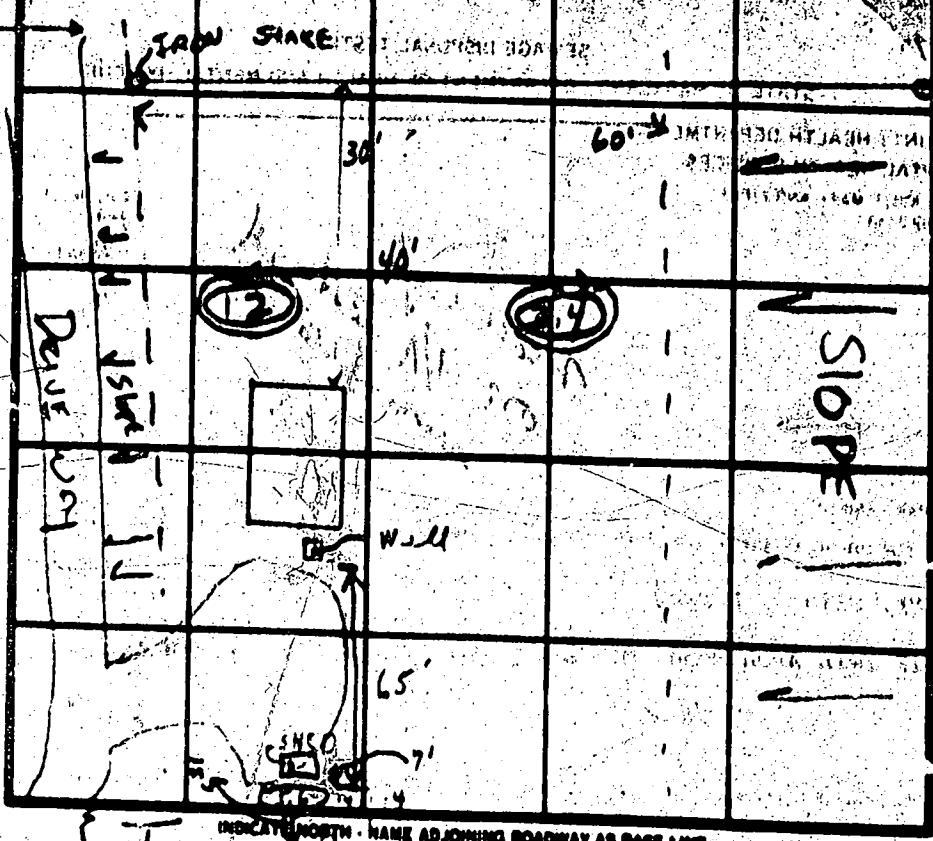
HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING bid for supervisor 312-15 6-30-80  
7/25/80 Tested in different area (Note 5+6) used  
Hold for supervisor C. Bd. The  
F.F. +

## THIS IS NOT A PERMIT

*A 29657-B*

# NOTATION



1-5' clay - shale  
 5-12' loam - shale  
 12' hard shale  
 5' thru shale  
 1-5' clay shale  
 5-11' loam - shale  
 7/8' 5/8"  
 1 1/2"  
 9 1/2"  
 1 1/2"

DATE	TEST NO	DEPTH	WEIGHT		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
6-30-80	(1)	13'	2:00	2:00:30	2:00:30	2:01	30 sec
	(2)	3'	2:01	2:15	2:15	3/8"	FAILED
	(2a)	4'	2:28	1/2"			FAILED
	(3)						
	(4)	Shale 5'		X	X	X	X
	2b	5'	2:54	3:01	3:01	3:13	12 sec ✓
	(1b)	11'	X	XX	XX	XX	XX * 2
7/25/80	5A	4 1/2'	1:26	1:30	1:30	1:48	18 sec
	6	9 1/2'	1:26	1:32	1:32	1:58	26 sec
	5B	1 1/2'	2:05	2:25	2:25	2:52	27 sec

REMARKS: Slab House \* 2 buckets water 30 sec

TYPE OF SOIL: CLAY  
 TESTED BY: SK+JS 6-30-80  
 ALSO PRESENT: BUCK

# HOWARD COUNTY HEALTH DEPARTMENT

JOYCE M. BOYD, M.D., M.A.H.  
COUNTY HEALTH OFFICER



Bureau of Environmental Health  
3625 Elliott Mills Drive  
Elliott City, Maryland 21043

Director - 481-8868  
Water & Sewerage, Permits - 481-8863  
Community Environmental Health - 481-8844  
Technical Services - 481-8868

November 30, 1987

## MEMORANDUM

TO: Chris Tolson  
Housing Office

FROM: Craig Williams C.W.  
Bureau of Environmental Health

SUBJECT: Evelyn Smith Property  
417 Twin Arch Road

This is to advise that the above referenced property failed the standard percolation test conducted in June and July of 1980. Percolation times were too slow at shallow levels and too fast at deeper levels to permit approval of a conventional septic system.

The property was not evaluated under non-conventional standards. However, the soils reports generated indicates that approval for a non-conventional septic system is very probable.

Were this to be the case, the existing well would have to be abandoned and a replacement well drilled at a location further from the septic area.

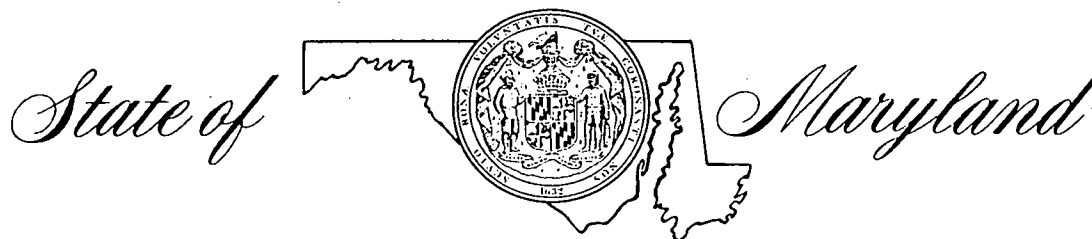
Evaluation for a non-conventional septic system is rather time consuming; if you wish to pursue that avenue, it would be prudent to reserve approximately \$6,000 to cover the eventual cost of the system.

CW:JR

11/5/98 ADDITIONAL TEST RESULTS  
ALLEGED NOT LOCATED  
THIS REVIEWER RECALLS OTHER  
UNSUCCESS RESULTS AT  
THIS SITE.

HOLDING TANK RECOMMENDED

SEE LET76 OF 11/9/78 CW Williams



**DEPARTMENT OF THE ENVIRONMENT**

201 WEST PRESTON STREET • BALTIMORE, MARYLAND 21201

AREA CODE 301 • ~~226x~~ 631-3652

William Donald Schaefer  
Governor

December 20, 1988

Secretary

Mr. Frank Skinner, Director  
Howard County Health Department  
Bureau of Environmental Health  
P.O. Box 476  
Ellicott City, Maryland 21043

RE: Evelyn Smith Property  
417 Twin Arch Road

Dear Mr. Skinner:

The results of our site evaluation at the referenced property indicate the site is suitable for installation of an innovative/alternative modified at Grade sewage disposal system. A copy of the site evaluation data is attached. Financial assistance may be available through the State of Maryland Indoor Plumbing and Loan Program. A brochure describing the loan program is attached. The following sections summarize requirements necessary for proceeding with the project.

Plans and Specifications

A professional engineer or registered sanitarian should be retained to provide final plans and specifications using the attached design information. Two sets of plans must be submitted to the Division of Residential Sanitation and the local Approving Authority for review before approval to construct the system can be given.

Agreement

Attached is an Agreement and Easement that must be signed by the property owner and recorded in the land records before permits to construct can be issued. The Agreement and Easement establishes the regulatory conditions associated with the experimental project and provides monitoring access for State and County personnel.

Mr. Frank Skinner  
Page Two

Please forward a copy of this letter to the property owner.  
If you or the property owner have any questions, please call meat  
631-3652.

Sincerely,

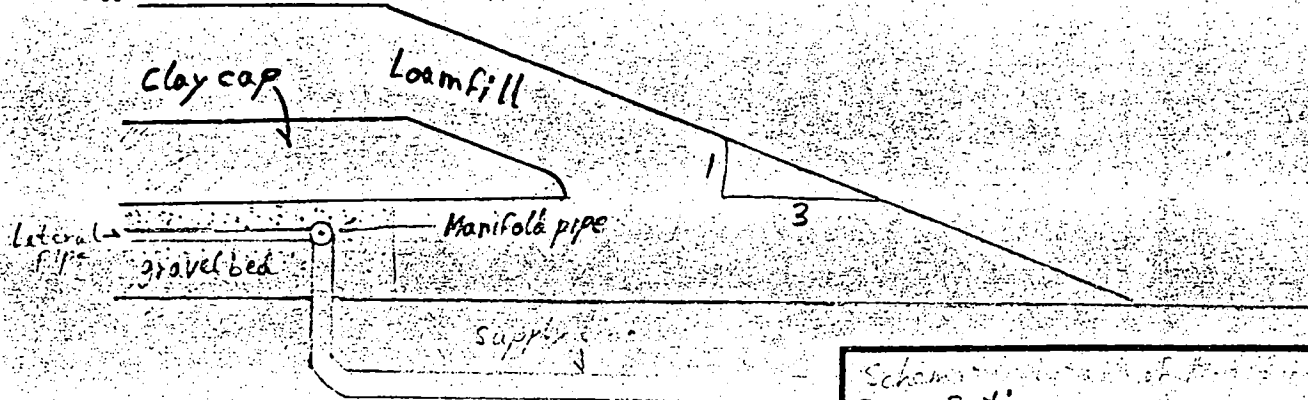
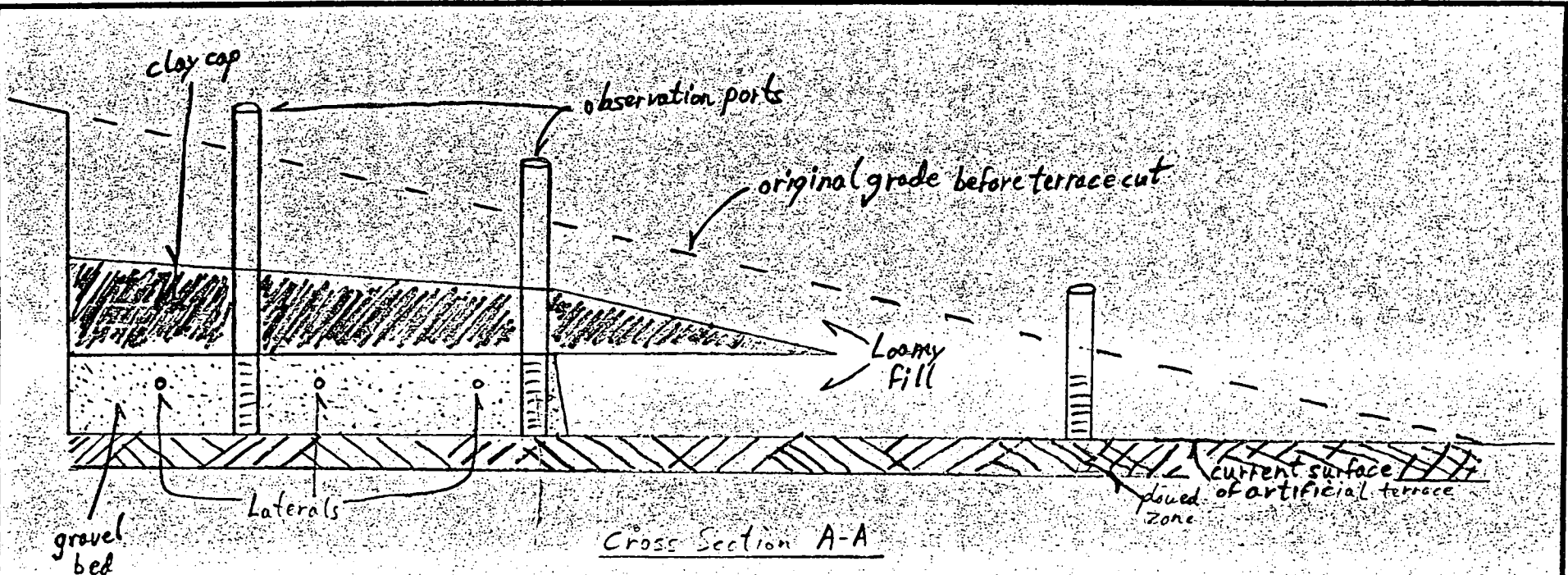


Ronald J. Pinkley, R.S.  
Innovative and Alternative Section  
Division of Residential Sanitation

Attachments

RJP:mjt

cc: Mr. Jack Holthaus.



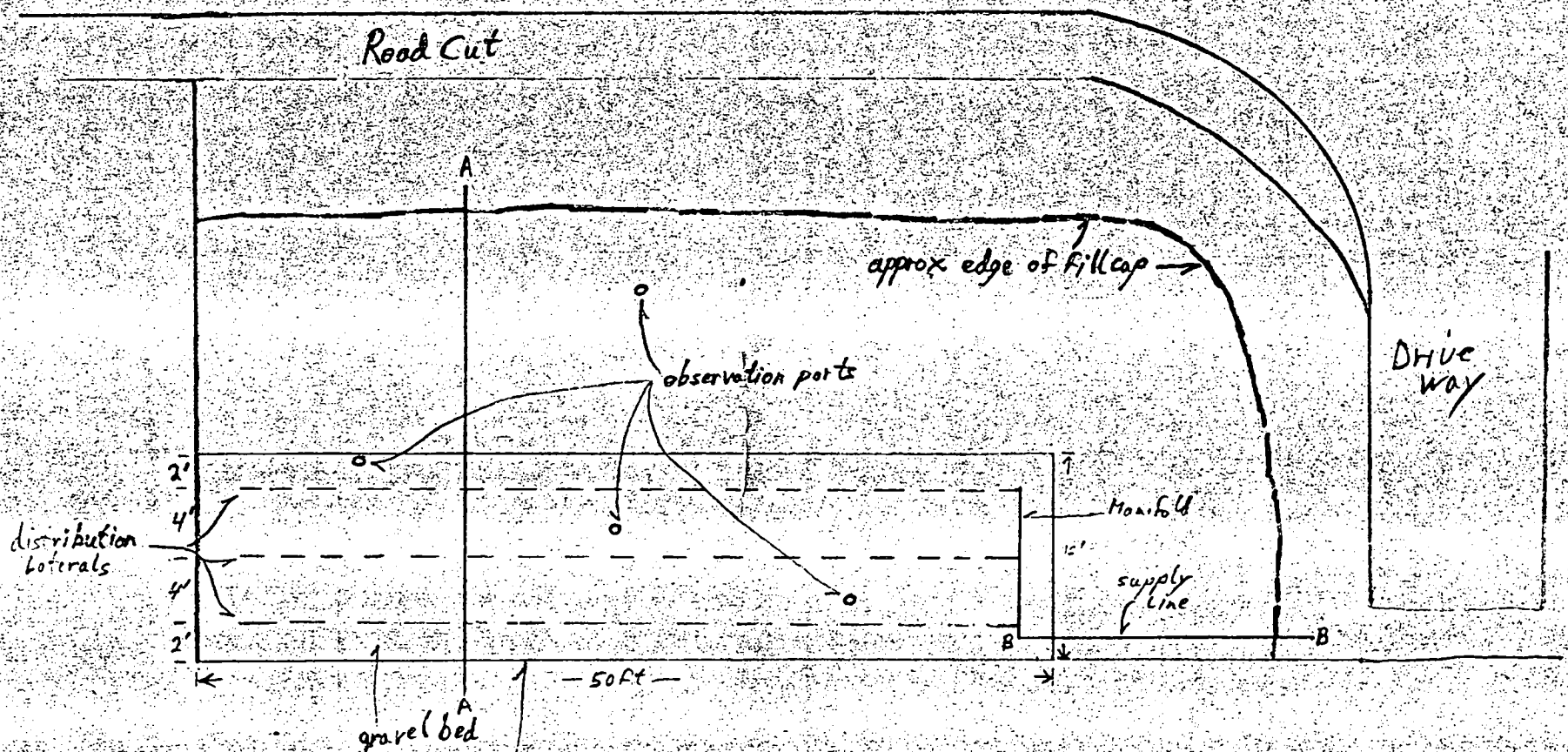
Schematic diagram of the terrace cut showing the original grade and the current surface of the artificial terrace.

Cross Sections

SCALE: Not to Scale	Howora Smith	DRAWN BY: K.
DATE:		REVISED:
<b>DEPARTMENT OF THE ENVIRONMENT</b> 201 WEST PRESTON STREET • BALTIMORE, MARYLAND 21201		
Evelyn Smith Property, Twin Arch Rd.		DRAWING NUMBER:

Road way

Road Cut



Drive way

Schematic Detail - Modified A-T Gravel Sand Disposal System  
TOP VIEW

SCALE 1in = 10ft  
DATE 12-16-82

Howard County

DRAWN BY R.J. Finkley  
REVISED

DEPARTMENT OF THE ENVIRONMENT  
201 WEST PRESTON STREET • BALTIMORE, MARYLAND 21201

Evelyn Smith Property, Twin Arch Rd

DRAWING NUMBER

MODIFIED AT GRADE PRESSURE DOSING  
SEWAGE DISPOSAL SYSTEM  
Evelyn Smith Property  
417 Twin Arch Rd.

DESIGN CRITERIA

The designer should check the proposed criteria, system location, layout and all calculations and incorporate the appropriate criteria into final plans and specifications. The attached site sketch, typical details, and memorandum should be used in the preparation of final plans and specifications.

1. DESIGN FLOW - 300 gpd. Water saving fixtures and low flow toilets are recommended to reduce wastewater flows to the system.

2. PRETREATMENT UNIT(S) - A double compartment septic tank or two tanks in series should be used. A total capacity of 1500 gal. should be provided in the septic tank(s). At a minimum, the first compartment should be sized for 2/3 of the required volume. If two tanks are used the first tank should be sized for 2/3 of the required volume. All tanks must be watertight and meet all horizontal separation distances specified in State and County regulations. Tanks that are constructed with seams and joints above the high water table are required. A 24 hour leakage test may be conducted to demonstrate watertightness prior to final construction approval.

3. PUMPING SYSTEM AND CONTROLS - The pumping chamber must be protected against buoyant forces and be watertight. Tanks constructed with seams and seals above the high water table are required. A 24 hour leakage test may be conducted to demonstrate watertightness prior to final construction approval. The pump chamber must provide sufficient volume to allow for the dose and one day's storage between the high water alarm and the inlet of the first septic tank. It is also recommended that volume be provided so that the pump can be set on a block and remain submerged at all times. The use of a three float system to control pump on, pump off, and the high water alarm is recommended. The pump shall be capable of delivering 49 gpm at design head. The design head includes two feet (2ft.) head at the distal end of the uppermost laterals. A flow meter or event counter and elapsed time meter is required to determine gallons pumped to the system. The control box or panel should be located outside the pump chamber in a waterproof enclosure. The high water alarm must be wired on a separate electrical circuit. All pump chambers must meet minimum horizontal separation distances as specified in State and County regulations. A test of the pumping system and distribution network will be required prior to covering. The force main can be partially covered as long as all joints, elbows, tees, etc. are visible. The test will require sufficient water on-site to activate the pump through several pumping cycles. Provisions to protect the pumping system and distribution network from erosion and sedimentation during construction should be made by the contractor.

4. AT GRADE SYSTEM DESIGN - The following at grade sewage disposal system assumes a slope of 0% on an artificial terrace. Original grade is between 12% to 15%. SDS should be designed as per the attached diagrams. Finished grade should conform to original grade before terrace was cut. A clay cap should be placed between geotextile fabric and topsoil and should extend at least 5ft. downslope of gravel bed. Greater widths for landscaping purposes are satisfactory.

- A) Design daily flow rate = 300 gpd
- B) Design loading rate = 0.5 gpd/sq.ft.
- C) Effective absorption area = 600 sq.ft.
- D) Design linear loading rate = 6.0 gpd/ft.
- E) Individual bed width = 12 ft.

- F) Individual bed length = 50 ft.
- G) Overall width = 24 ft.
- H) Overall length = 60+ ft.- provide a 3:1 sideslope based on depth of cut from original grade at upslope edge of bed.

5. GRAVEL FILL - The gravel fill used must be 3/4 to 2 inches in diameter, washed and free of fines. Gravel must be inspected and approved prior to its placement in the disposal beds. Six inches of gravel fill must be maintained under the upslope distribution laterals in each bed and through out each bed. In addition two inches of gravel cover between the lateral pipes and geotextile fabric is required.

6. DISTRIBUTION SYSTEM - If the above assumptions are used, the pressure distribution network should be designed as follows:

- A) Number of laterals = 3
- B) Lateral length = 45.5 ft.
- C) Diameter of laterals = 1 1/2 in.
- D) Diameter of perforations = 5/16 in.
- E) Space between perforations = 5 ft.
- F) Space between last perforation and edge of bed = 2.5 ft.
- G) Perforations per lateral = 10
- H) Perforation discharge for 5/16 in. dia. perforation at 2 ft. of head = 1.63 gpm
- I) Discharge rate per lateral = 16.3 gpm
- J) Total discharge rate = 48.9 gpm
- K) Dose = (5 x volume of laterals) + volume of manifold + volume of supply line, or; design flow divided by 6. Choose the equation that gives the larger dose.
- L) Diameter of supply line = 3 in.
- M) Diameter of manifold = 2 in.

7. MONITORING REQUIREMENTS - The following are required:

- A) Observation ports - 4
- B) Suction lysimeters - NO
- C) Tensiometers - No
- D) Surface water stations - No
- E) Monitoring wells - No

Proposed locations and details are shown on the attached drawings.

8. ARTIFICIAL DRAINAGE - None

SOIL DESCRIPTION

NAME Smith, Evelyn COUNTY Howard FILE NO \_\_\_\_\_  
 SOIL MAP UNIT Mc Airy MAP SYMBOL \_\_\_\_\_ DATE 1-13-88  
 GEOLOGIC MATERIAL \_\_\_\_\_ ELEVATION \_\_\_\_\_ GRID NO \_\_\_\_\_ E  
 NO. TPI DESCRIBED BY R. Pinkley, S. Abel \_\_\_\_\_ N

Horizon	Depth in.	Color		Texture	Structure		% Rock Fragments	Notes (Moisture, Density, Biopores, Seepage)
		Matrix	Mottles		Grade	Type		
This profile cut off at Terrestrial site seen only at cut	0-2"	10YR 4/2	—	(Frozen)		Frozen gran		Top Material is Frozen
	2-6"	10YR 6/4	—	ch SIL- SICL		Frozen	30%	also frozen to 10" deep
	6-14"	10YR 5/6	—	ch SIL- SICL	3vff	gran- sbk	40-50%	boundaries are diffuse & Broken
	14"-depth	7.5YR 4/4	—	ch SIL SICL	3vff	gran (to massive)	40-50%	mostly small channels but some Flays at 6ft-10ft depth
	10 1/2 ft							This TP cut across old TP (1981 TP) - had alum. ladder in ground
				some thin bands of rotten rock				

LANDSCAPE

Position

Summit \_\_\_\_\_ Depression \_\_\_\_\_  
 Shoulder \_\_\_\_\_ Upland \_\_\_\_\_  
 Sideslope  Terrace \_\_\_\_\_  
 Footslope \_\_\_\_\_ Floodplain \_\_\_\_\_

Slope

Percent 12%-15%  
 Shape \_\_\_\_\_  
Artificial  
 Test site was a cut  
 Terrace

SOIL DRAINAGE CLASS

ED  MWD \_\_\_\_\_ PD \_\_\_\_\_  
 WD  SPD \_\_\_\_\_ VPD \_\_\_\_\_

WATER TABLE

NA

LIMITING ZONE

rockiness & fast perks

SOIL CLASSIFICATION

SOIL DESCRIPTION

NAME Smith, Evelyn COUNTY Howard FILE NO \_\_\_\_\_  
 SOIL MAP UNIT Mt Airy MAP SYMBOL \_\_\_\_\_ DATE 1-13-88  
 GEOLOGIC MATERIAL \_\_\_\_\_ ELEVATION \_\_\_\_\_ GRID NO \_\_\_\_\_ E  
 NO. TP1 DESCRIBED BY R. Pinkley, S. Abel \_\_\_\_\_ N

Horizon	Depth in.	Color		Texture	Structure		% Rock Fragments	Notes (Moisture, Density, Biopores, Seepage)
		Matrix	Mottles		Grade	Type		
This profile cut off Flat Terrace site seen only at cut	0-2"	10YR 4/2	—	(Frozen)		Frozen gran		Top Material is Frozen
	2-6"	10YR 6/4	—	ch SIL- SICL		Frozen	30%	also frozen to 10" deep
	6-14"	10YR 5/6	—	ch SIL- SICL	3vf-f	gran- sbk	40-50%	boundaries are diffuse + Broken
	14" depth	7.5YR 4/4	—	ch SIL SICL	3vf-f	gran (to passive)	40-50%	mostly small clenners but some Flays at 6ft-10ft depth
	10 1/2 ft			some thin bands of rotten rock				This TP cut across old TP (1981 TP) had alum. ladder in ground

LANDSCAPE

Position

Summit \_\_\_\_\_ Depression \_\_\_\_\_  
 Shoulder \_\_\_\_\_ Upland \_\_\_\_\_  
 Sideslope  Flat Terrace   
 Footslope \_\_\_\_\_ Floodplain \_\_\_\_\_

Slope

Percent 12%-15%  
 Shape \_\_\_\_\_  
 Test site was a cut  
 Terrace

SOIL DRAINAGE CLASS

ED  MWD \_\_\_\_\_ PD \_\_\_\_\_  
 WD  SPD \_\_\_\_\_ VPD \_\_\_\_\_

WATER TABLE

NA

LIMITING ZONE

rockiness + fast perks

SOIL CLASSIFICATION

AGREEMENT AND EASEMENT  
FOR  
INSTALLATION OF AN  
INNOVATIVE AND ALTERNATIVE  
ON-SITE SEWAGE DISPOSAL SYSTEM.

THIS AGREEMENT is made this \_\_\_\_\_ day of \_\_\_\_\_,  
19\_\_\_\_, between and among \_\_\_\_\_  
\_\_\_\_\_ HEREINAFTER REFERRED TO AS Owner, and the Department  
of the Environment which includes the \_\_\_\_\_  
HEREINAFTER REFERRED TO AS the Department.

WHEREAS, Owner is seized and possessed of a tract of land  
located in the \_\_\_\_\_ Election District of Howard  
County, Maryland, the deed to same being recorded among the Land  
Records of Howard County, Maryland, in Liber \_\_\_\_\_,  
Folio \_\_\_\_\_.

WHEREAS, this land has been selected as a test site for an  
innovative/alternative system of sewage disposal.

WHEREAS, Owner's land is unsuitable for the installation of  
a conventional on-site sewage disposal system and owner desires  
the Department's approval to install an innovative/alternative  
system of sewage disposal.

NOW, THEREFORE, the parties hereto agree as follows:

A. Owner agrees to install a water meter on the incoming  
side of the water system or event counter on the sewage pumping  
system that will be checked periodically by the Department to  
correlate the volume of the meter or event counter reading with  
the functioning of the system.

B. Owner hereby grants to the Department and the \_\_\_\_\_  
Howard County Health Dept the right to enter upon the  
property at any reasonable time for access to the system to make  
periodic inspections and the Owner agrees to provide any  
information and data requested and needed by the Department to  
develop accurate and thorough test results.

C. Owner acknowledges and agrees that the proposed  
innovative/alternative system is experimental and that his  
participation is voluntary. Owner agrees that there shall be no  
liability on the part of the Department to Owner if this  
innovative/alternative system fails, and that the Department does  
not warrant or guarantee that the system will adequately or  
property function.

D. Owner acknowledges and agrees that neither the  
Department nor any of its agents or employees, either officially  
or individually, underwrites the operation of any system approved  
by them.

E. The Owner will devote such care and effort to the  
maintenance of the system so that a system malfunction is not the  
result of poor maintenance, faulty operation or neglect.

F. Owner agrees, that, should the system be determined by  
the Department to pose a threat to the public health, safety or  
comfort, the Department may order any necessary changes or  
corrections and the Owner agrees to pay for all such changes or  
corrections. System modifications may include requirements for  
holding of sewage wastes in holding tanks and regular pumping  
from the holding tanks. The Owner may also be required to enter

into a contract, acceptable to the Department, to allow, and pay a public or private entity to pump on a regularly scheduled basis an approved holding tank system.

G. The Owner agrees to contact both the Water Management Administration, Division of Residential Sanitation and the Howard County Health Dept, at least 48 hours prior to system installation so that the Department may layout the system in the field with the contractor. The Owner further agrees that this system will be installed according to the plans and specifications approved by the Department and any changes approved by the Department determined as a result of the field layout. If installation deviates substantially from the approved plans or changes, such that experimental data will be compromised or reduced, the Owner agrees to pay for all necessary corrections.

H. This agreement shall run with the land and binds the owner, his heirs, successors or assigns except that the provisions of paragraph A & B shall be binding for a period of 5 years only after installation of the system and occupation of the home. Owner further agrees that he shall inform any purchaser or lessee of the property of the special maintenance required by the system. The Owner agrees to record this agreement in the land records of Howard County.

WITNESS, the hand and seal of the parties hereto.

DATE: \_\_\_\_\_

Owner \_\_\_\_\_

DATE: \_\_\_\_\_

*Michael E. Kenowitz*  
Department of the Environment

DATE: \_\_\_\_\_

\_\_\_\_\_  
County \_\_\_\_\_

**SOIL DESCRIPTION**

Name: Smith, Evelyn COUNTY: Howard FILE NO: \_\_\_\_\_  
 MAP UNIT: Mt Airy MAP SYMBOL: \_\_\_\_\_ DATE: 1-13-88  
 EC MATERIAL: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ GRID NO: \_\_\_\_\_  
 TPI: \_\_\_\_\_ DESCRIBED BY: R. Pinkley, S. Abel

Depth in.	Color		Texture	Structure		% Rock Fragments	Notes (Moisture, Density, Biopore)
	Matrix	Mottles		Grade	Type		
0-2"	10YR 4/2	—	(Frozen)		Frozen gran		Top Material is Frozen
2-6"	10YR 6/4	—	ch sil- sicl		Frozen	30%	also frozen to 10" depth
6-14"	10YR 5/6	—	ch sil- sicl	3vff	gran- sbk	40-50%	boundaries are diffuse & broken
14" depth	7.5YR 4/4	—	ch sil- sicl	3vff	gran (to massive)	40-50%	Mostly small clenners but some Flays at 6ft-10ft
10 1/2 ft			some thin bands of rotten rock				This TP cut across (1981 TP) had also in ground

PE \_\_\_\_\_ SOIL DRAINAGE CLASS \_\_\_\_\_ LIMITING ZONE \_\_\_\_\_  
 Location \_\_\_\_\_ Slope \_\_\_\_\_ ED  MWD \_\_\_\_\_ PD \_\_\_\_\_  
 Summit \_\_\_\_\_ Depression \_\_\_\_\_ Percent 12%-15% WD  SPD \_\_\_\_\_ VPD \_\_\_\_\_  
 Boulder \_\_\_\_\_ Upland \_\_\_\_\_ Shape \_\_\_\_\_ WATER TABLE \_\_\_\_\_  
 Deslope  Terrace \_\_\_\_\_ Artificial \_\_\_\_\_ Test site was a cut \_\_\_\_\_  
 Slope \_\_\_\_\_ Floodplain \_\_\_\_\_ Terrace \_\_\_\_\_ SOIL CLASSIFICATION \_\_\_\_\_

SOIL DESCRIPTION

NAME SMITH COUNTY HAWAII FILE NO. \_\_\_\_\_  
 SOIL MAP UNIT ME Airy Channery Loam MAP SYMBOL ME DATE 1-13-88  
 GEOLOGIC MATERIAL MICACEOUS SCHIST (SLATY) Elevation \_\_\_\_\_ GRID No. JAY MAP 1 PAIHELL  
 No. \_\_\_\_\_ DESCRIBED BY S. Aul

Horizon	Depth in.	Color		Texture	Structure		% Coarse Fragments	Notes (Moisture, Density, Consistence, Features, Seep)
		Matrix	Mottles		Grade	Type		
0-13	0-36"t	EXCAVATED	TERRACE / BENCH	FRM SIDE	SLOPE OF	12-15%		
B/c	36"+	STRONG BR	F, SYR	SILT to SILTCLM	FRAGMENTED - GRANULAR	50+%	STICKY + PLASTIC MICACEOUS - ROCK FRAGMENTS LARGAW/DEPTH + HARDER TO MASSIVE w/ SLIGHT STRUCTURE AT APPROX 9.5-10" NOTE - PERC HOLE dug PERPENDICULAR TO OLD TEST HOLE IN 1980, TOP SHILL PERC RAPID TIME MAY HAVE BEEN INFLUENCED BY THE DISTURBANCE	

LANDSCAPE FEATURES

Upland/Maxine \_\_\_\_\_ Summit \_\_\_\_\_  
 Bench \_\_\_\_\_ Shoulder \_\_\_\_\_  
 Terrace <sup>Artificial</sup> Sideslope   
 Floodplain \_\_\_\_\_ Footslope \_\_\_\_\_  
 Depression \_\_\_\_\_ Toeslope \_\_\_\_\_  
 Slope <sup>FLAT</sup> Shape Width SEE ATTACHED  
 (TEST AREA)

SOIL DRAINAGE CLASS

ED \_\_\_\_\_ MWD \_\_\_\_\_ PD \_\_\_\_\_  
 WD  SFD \_\_\_\_\_ VFD \_\_\_\_\_  
WATER TABLE  
 Type \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Misc. \_\_\_\_\_

GEOLOGIC MATERIAL

Recent Alluvium \_\_\_\_\_  
 Old Alluvium \_\_\_\_\_  
 Coastal Plain Sediments \_\_\_\_\_  
 Residuum   
 Colluvium \_\_\_\_\_  
 Eolian \_\_\_\_\_  
 Misc. \_\_\_\_\_

LIMITING HORIZON  
Depth

B-Horizon \_\_\_\_\_  
 Fragipan \_\_\_\_\_  
 C-Strud-Saprolite \_\_\_\_\_  
 C-Strud-Saprolite <sup>MASSIVE TO</sup>   
 C-Horizon \_\_\_\_\_  
 R-Bedrock \_\_\_\_\_  
 Other \_\_\_\_\_

SOIL DESCRIPTION

NAME Smith, Evelyn COUNTY Howard FILE NO \_\_\_\_\_  
 SOIL MAP UNIT Mt Airy MAP SYMBOL \_\_\_\_\_ DATE 1-13-88  
 GEOLOGIC MATERIAL \_\_\_\_\_ ELEVATION \_\_\_\_\_ GRID NO \_\_\_\_\_ E  
 NO. TPI DESCRIBED BY R. Pinkley, S. Abel \_\_\_\_\_ N

Horizon	Depth in.	Color		Texture	Structure		% Rock Fragments	Notes (Moisture, Density, Biopores, Seepage)
		Matrix	Mottles		Grade	Type		
This profile cut off Flat Terrace site seen only at cut	0-2"	10YR 4/2	—	(Frozen)		Frozen gran		Top Material is Frozen
	2-6"	10YR 6/4	—	ch SIL- SICL		Frozen	30%	also frozen to 10" deep
	6-14"	10YR 5/6	—	ch SIL- SICL	3vff	gran- sbk	40-50%	boundaries are diffuse & Broken
	14"-depth	7.5YR 4/4	—	ch SIL SICL	3vf-f	gran (to massive)	40-50%	Mostly small channels but some Flays at 6ft-10ft depth
	10 1/2 ft							This TP cut across old TP (1981 TP) had alum. ladder in ground
				some thin bands of rotten rock				

LANDSCAPE

Position

Summit \_\_\_\_\_ Depression \_\_\_\_\_  
 Shoulder \_\_\_\_\_ Upland \_\_\_\_\_  
 Sideslope  Flat Terrace \_\_\_\_\_  
 Footslope \_\_\_\_\_ Cut Floodplain \_\_\_\_\_

Slope

Percent 12%-15%  
 Shape \_\_\_\_\_  
ARTIFICIAL  
 Test site was a cut  
 Terrace

SOIL DRAINAGE CLASS

ED  MWD \_\_\_\_\_ PD \_\_\_\_\_  
 WD  SPD \_\_\_\_\_ VPD \_\_\_\_\_  
WATER TABLE  
 NA

LIMITING ZONE

richness & fast perks

SOIL CLASSIFICATION

NOTE

Transfer approval blocks  
to plans to facilitate  
approval process.

MARYLAND DEPARTMENT OF THE ENVIRONMENT  
DIVISION OF RESIDENTIAL SANITATION

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Approved by: \_\_\_\_\_  
Date: \_\_\_\_\_

NOTE

Approval of final field  
layout is required by the  
Division of Residential  
Sanitation at least 48 hours  
prior to system installation

Approved By \_\_\_\_\_

Date \_\_\_\_\_

PLAN APPROVAL BLOCK

SCALE:

DRAWN BY

DATE:

REVISED

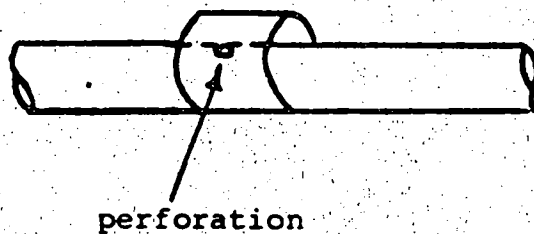
DEPARTMENT OF THE ENVIRONMENT

201 WEST PRESTON STREET • BALTIMORE, MARYLAND 21201

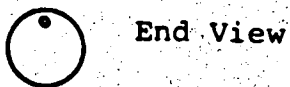
DRAWING NUMBER

FIGURE 4.5 - ALTERNATIVES FOR PLACEMENT OF THE END PERFORATION IN A DISTRIBUTION LATERAL

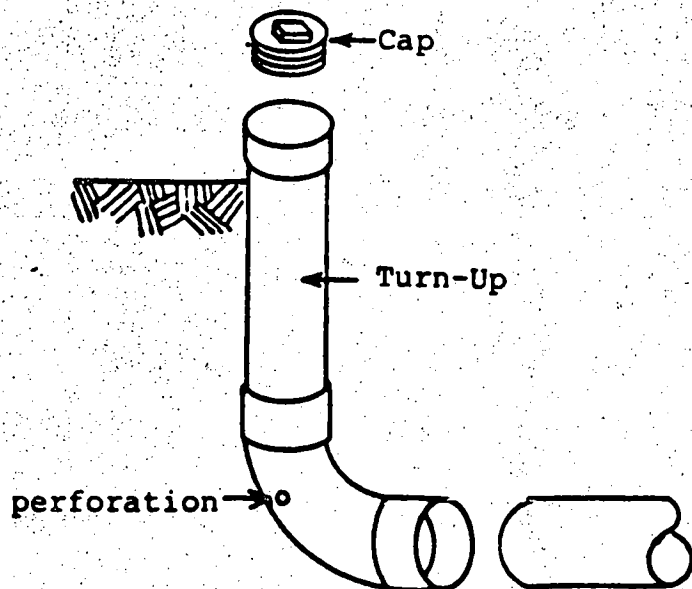
Shielded Placement

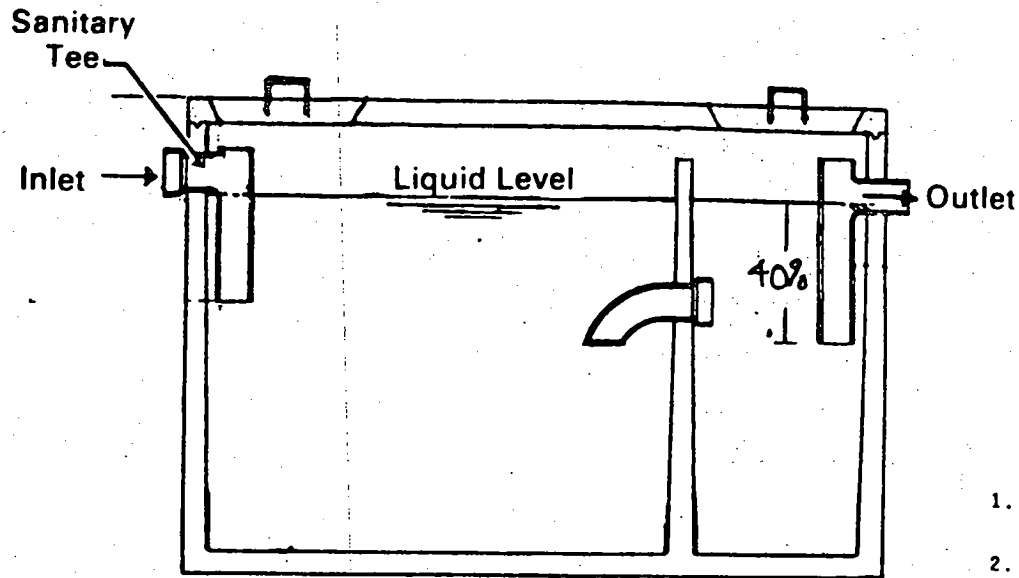


End Cap Placement

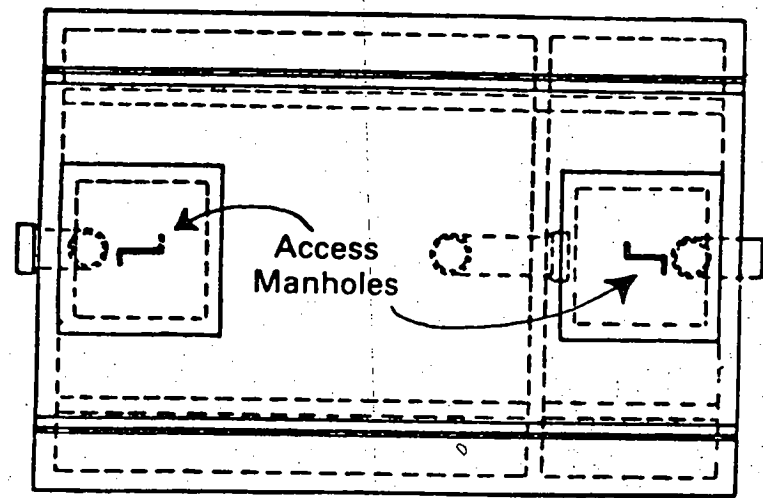


Turn-Up Placement





Longitudinal Section



Plan

SEPTIC TANK NOTES

1. The total minimum capacity of the septic tank must be \_\_\_\_\_ gallons.
2. All tanks must be watertight and meet all horizontal separation distances specified in State and County regulations.
3. Tanks that are constructed with seams and joints above the high water table are required.
4. A 24-hour leakage test may be conducted to demonstrate watertightness prior to final construction approvals.
5. Allow 2ft clearance around excavation for tamping.
6. All pipe cutouts to be sealed with watertight grout or approved rubber gaskets.
7. Manhole access to be brought to grade with watertight risers.

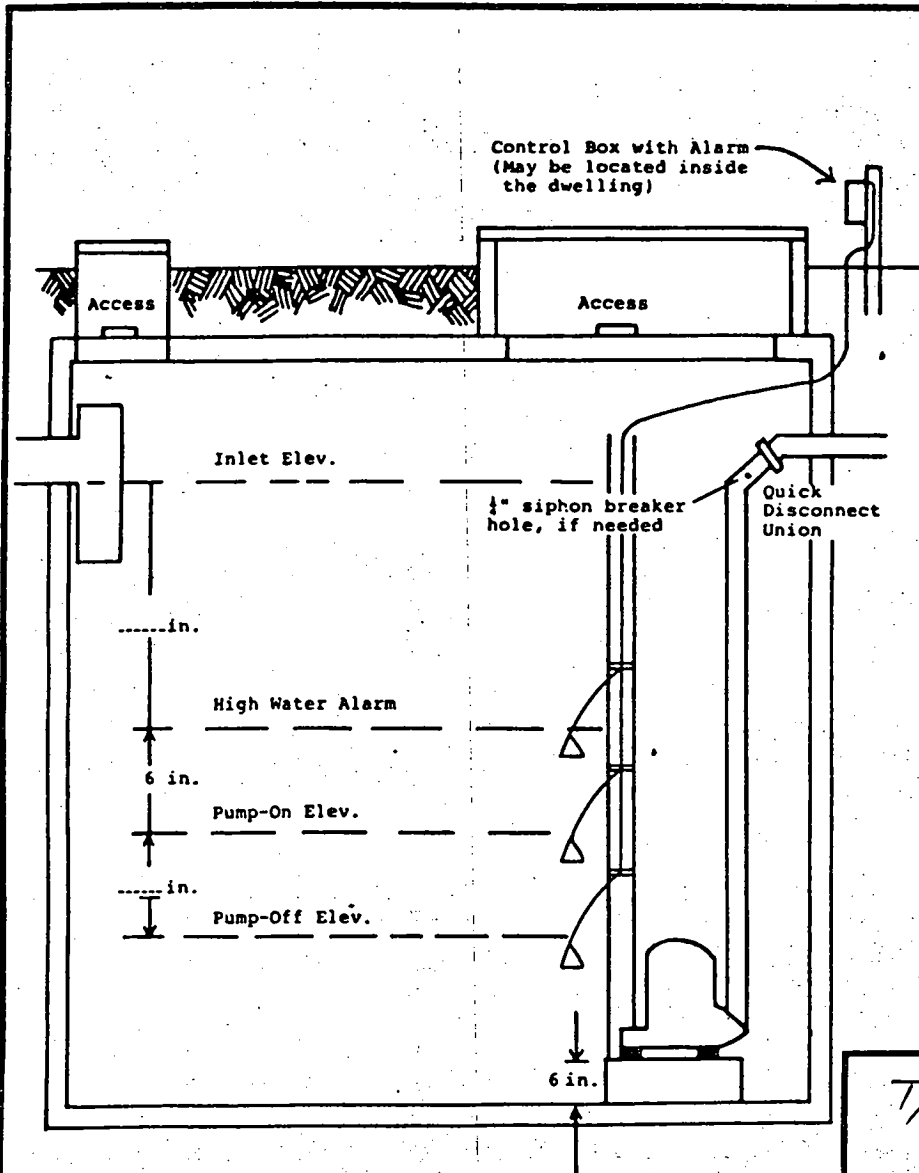
*Typical Septic Tank Detail*

SCALE: **Not to Scale**  
DATE:

DRAWN BY  
REVISED

**DEPARTMENT OF THE ENVIRONMENT**  
201 WEST PRESTON STREET • BALTIMORE, MARYLAND 21201

DRAWING NUMBER



**PUMP AND PUMP CHAMBER NOTES**

1. The pump chamber must provide sufficient capacity to allow for storage of the dose and one day design flow between the high water alarm and the inlet of the first septic tank. It is also recommended that sufficient capacity be provided so that the pump can be set on a block and remain submerged at all times.
2. The pump chamber must be watertight and protected against buoyant forces and meet all horizontal separation distances in State and County regulations.
3. Chambers that are constructed with seams and joints above the high water table are required.
4. A 24-hour leakage test may be conducted to demonstrate watertightness prior to final construction approval.
5. A manhole access must be brought above the surface of the ground using watertight risers.
6. The pump shall be capable of delivering \_\_\_\_\_ gpm at \_\_\_\_\_ ft. of head, which includes 2 ft. of head at the distal end of the laterals.
7. The use of a three float system to control pump-on, pump-off and the high water alarm is recommended. The float system must be capable of delivering the specified dose.
8. Measurements are based on inside dimensions of \_\_\_\_\_.
9. The control box or panel should be located outside of the pump chamber either in a waterproof enclosure or in the house.
10. The high water alarm must be wired on a separate electrical circuit.
11. A flow meter or event counter and elapsed time meter are required to determine gallons pumped to the system.
12. A test of the pumping system and distribution network will be required prior to covering. The force main can be partially covered as long as all joints, elbows, tees, etc. are visible. The test will require sufficient water on-site to activate the pump through several pumping cycles. Provisions to protect the pumping system and distribution network from erosion and sedimentation during construction should be made by contractor.

*Typical Pump Chamber Detail*

SCALE: **Not to Scale**  
DATE:

DRAWN BY  
REVISED

**DEPARTMENT OF THE ENVIRONMENT**

201 WEST PRESTON STREET • BALTIMORE, MARYLAND 21201

DRAWING NUMBER

TABLE 3. Downslope and Upslope Width Corrections  
for Mounds on Sloping Sites.

Slope %	Downslope (I) Correction Factor	Upslope (J) Correction Factor
0	1.0	1.0
2	1.06	.94
4	1.14	.89
6	1.22	.86
8	1.32	.80
10	1.44	.77
12	1.57	.73

**B. Volume Per 100 Feet (Gallons)**

Nominal Pipe Size (inches)	PVC Flexible Pressure Pipe				PVC Rigid Pipe	
	SDR32.5	SDR26	SDR21	SDR17	Sch.40	Sch.80
1		5.8	5.8	5.5	4.5	3.7
1 $\frac{1}{4}$	9.7	9.6	9.2	8.7	7.8	6.7
1 $\frac{1}{2}$	12.9	12.6	12.1	11.5	10.6	9.2
2	20.3	19.6	18.8	17.9	17.4	15.3
2 $\frac{1}{2}$	29.7	28.8	27.6	26.3	24.9	22.0
3	44.0	42.6	40.9	38.9	38.4	34.3
3 $\frac{1}{2}$	57.5	55.6	53.5	50.8	51.4	46.2
4	72.8	70.4	67.7	64.3	66.1	59.7
5	111	108	103	98.3	104	94.5
6	158	153	147	139	150	135
8	267	259	249	236	260	237

**Notes:**

"SDR" means standard dimension ratio and is the ratio of outside pipe diameter to wall thickness.

Source: derived from ASTM Standards D-1785, D-2241, D-2729, and F-405.

TABLE IX - 3

EQUIVALENT LENGTHS OF PLASTIC PIPE FOR VARIOUS FITTINGS

Type of Fitting	1 1/2"	2"	3"	4"	6"	8"	Type of Fitting
Equivalent Length in Feet							
90 ELBOW	4.73	5.55	8.23	10.8	16.2	22.4	90 ELBOW
45 ELBOW	2.01	2.58	3.84	5.03	7.58	9.98	45 ELBOW
STD. TEE (Diversión)	8.62	11.1	16.5	21.6	32.4	44.8	STD. TEE (Diversión)
CHECK VALVE	12.0	15.4	22.9	30.0	45.2	59.5	CHECK VALVE
COUPLING OR QUICK DISCONNECT	1.05	1.35	2.01	2.64	3.98	5.23	COUPLING OR QUICK DISCONNECT

**EXAMPLE:** Water flowing through a 3 inch diameter CHECK VALVE will experience as much friction loss as flowing through 22.9 feet of 3 inch pipe.

Thus at a flow rate of 8 gallons per minute through a 15 year old 1 inch pipe, 100 feet long, a total of 7.8 feet or 3.38 lbs. of head loss is experienced. Forcing 12 gpm through the same pipe increases the loss to 16.4 feet or 7.10 lbs.

The friction loss of head caused by valves and fittings is computed by use of equivalent length of pipe and is shown in the following tables:

ALLOWANCE IN EQUIVALENT LENGTH OF PIPE FOR FRICTION LOSS  
IN VALVES AND THREADED FITTINGS (ASA A40.8-1955)

DIAMETER OF FITTING	90 DEG. STANDARD ELL	45 DEG. STANDARD ELL	90 DEG. SIDE TEE	COUPLING OR STR. RUN OF TEE	GATE VALVE	GLOBE VALVE	ANGLE VALVE
Inches	Feet	Feet	Feet	Feet	Feet	Feet	Feet
3/8	1	0.6	1.5	0.3	0.2	8	4
1/2	2	1.2	3	0.6	0.4	15	8
3/4	2.5	1.5	4	0.8	0.5	20	12
1	3	1.8	5	0.9	0.6	25	15
1 1/4	4	2.4	6	1.2	0.8	35	18
1 1/2	5	3	7	1.5	1.0	45	22
2	7	4	10	2	1.3	55	28
2 1/2	8	5	12	2.5	1.6	65	34
3	10	6	15	3	2	80	40
3 1/2	12	7	18	3.6	2.4	100	50
4	14	8	21	4.0	2.7	125	55
5	17	10	25	5	3.3	140	70
6	20	12	30	6	4	165	80

Table 2

TABLE 7-14

FRICITION LOSS IN SCHEDULE 40 PLASTIC PIPE, C = 150  
(ft/100 ft)

Flow gpm	Pipe Diameter (in.)								
	1	1-1/4	1-1/2	2	3	4	6	8	10
1	0.07								
2	0.28	0.07							
3	0.60	0.16	0.07						
4	1.01	0.25	0.12						
5	1.52	0.39	0.18						
6	2.14	0.55	0.25	0.07					
7	2.89	0.76	0.36	0.10					
8	3.63	0.97	0.46	0.14					
9	4.57	1.21	0.58	0.17					
10	5.50	1.46	0.70	0.21					
11		1.77	0.84	0.25					
12		2.09	1.01	0.30					
13		2.42	1.17	0.35					
14		2.74	1.33	0.39					
15		3.06	1.45	0.44	0.07				
16		3.49	1.65	0.50	0.08				
17		3.93	1.86	0.56	0.09				
18		4.37	2.07	0.62	0.10				
19		4.81	2.28	0.68	0.11				
20		5.23	2.46	0.74	0.12				
25			3.75	1.10	0.16				
30			5.22	1.54	0.23				
35				2.05	0.30	0.07			
40				2.62	0.39	0.09			
45				3.27	0.48	0.12			
50				3.98	0.58	0.16			
60					0.81	0.21			
70					1.08	0.28			
80					1.38	0.37			
90					1.73	0.46			
100					2.09	0.55	0.07		
150						1.17	0.16		
200							0.28	0.07	
250							0.41	0.11	
300							0.58	0.16	
350							0.78	0.20	0.07
400							0.99	0.26	0.09
450							1.22	0.32	0.11
500								0.38	0.14
600								0.54	0.18
700								0.72	0.24
800									0.32
900									0.38
1000									0.46

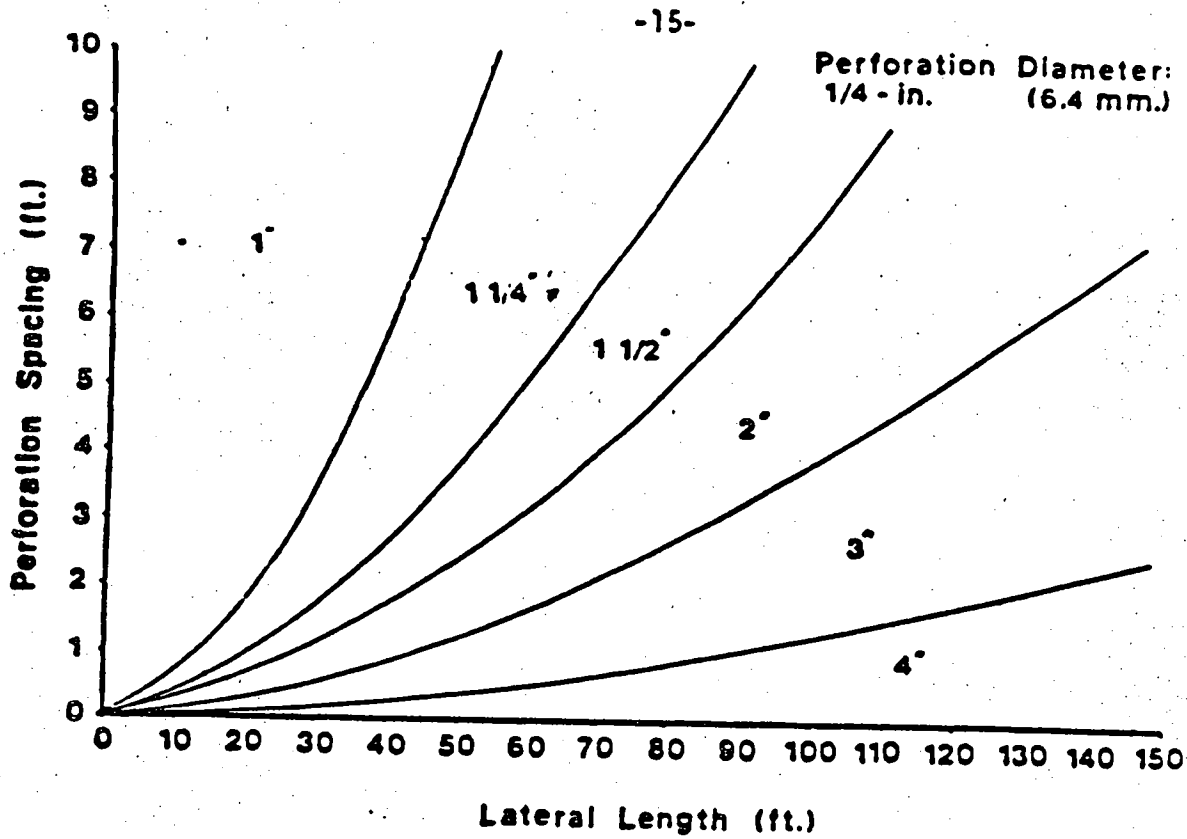


FIGURE III. C-2

Minimum Lateral Diameter for Plastic Pipe ( $C_h = 150$ ) Versus Perforation Spacing and Lateral Length for 1/4 in. Diameter Perforations (Otis, 1981)

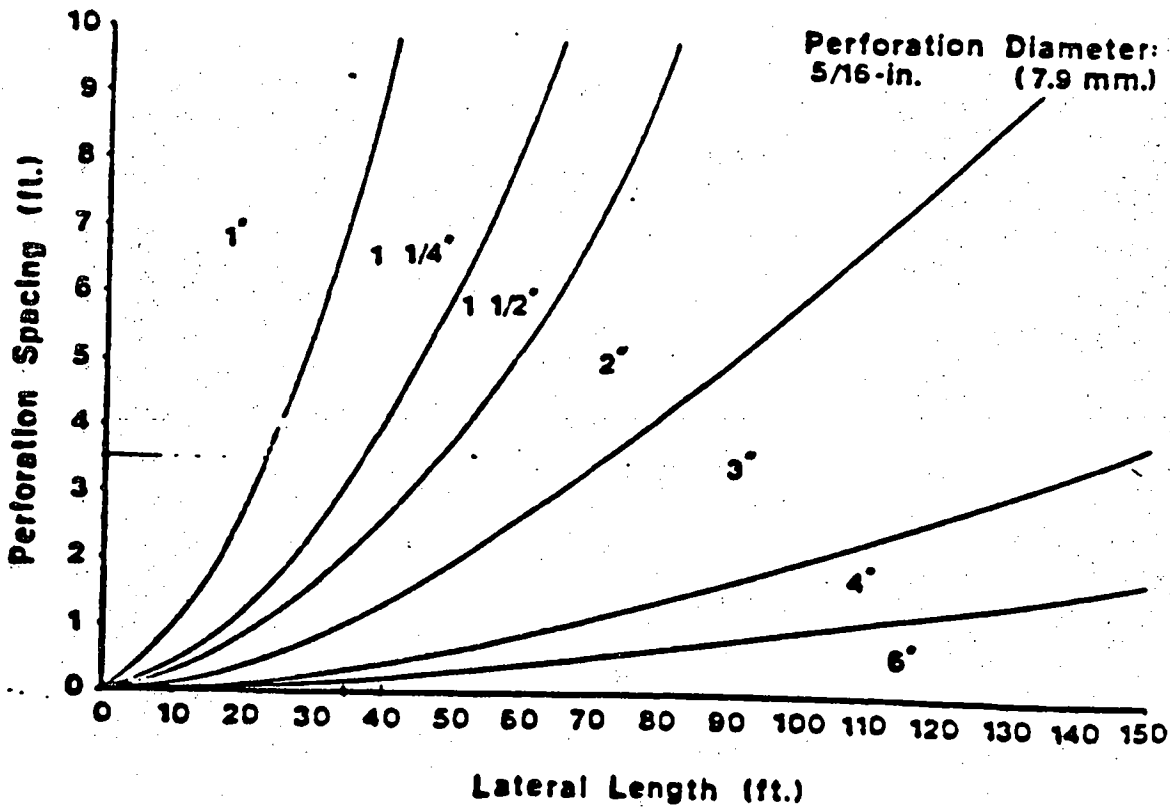


FIGURE III. C-3

Minimum Lateral Diameter for Plastic Pipe ( $C_h = 150$ ) Versus Perforation Spacing and Lateral Length for 5/16 in. Diameter Perforations (Otis, 1981)

# APPLICATION

Smith  
f

PERCOLATION TESTING

A \_\_\_\_\_

P \_\_\_\_\_

HEALTH DEPARTMENT  
MENTAL HEALTH  
CITY, MARYLAND 21043

DISTRICT 4TH

DATE 1-13-88

I  $\frac{1}{2}$  A TESTING AT REQUEST  
OF MIL. TOLSON - HOUSING DEPT.

OFFICER

ID

FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM

Olivia Dorsey / MRS. SMITH

PHONE \_\_\_\_\_

PHONE \_\_\_\_\_

LOT NO. \_\_\_\_\_

417 TWIN ALCH ROAD

INDOOR PLUMBING & ELIMINATE PRIVY

PERCEL # 11

160' X 130'

TYPE BLDG

EXISTING SFD

(SINGLE FAMILY DWELLING OR COMMERCIAL)

WHERE THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND

THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COM



---

**HOWARD COUNTY HEALTH DEPARTMENT**

---

*Mary Sue Baker, MBA, Acting County Health Officer*

Evelyn Smith  
417 Twin Arch Rd.

Dear Ms Smith,

I am returning the enclosed copy of the holding tank agreement for your property, you may wish to keep it for your files.

All we needed was notice that the agreement had been recorded, which was provided in the attorney's cover letter.

Thank you.

We are forwarding the HOLDING TANK INSTALLATION PERMIT to your contractor, WRF Plumbing. They may begin installation at any time, although I expect it will be most practical if they wait until the building permit for the bathroom addition is issued and construction is underway.

With a functioning high water alarm, and reasonable care to guard against excessive water use, I think you will be able to manage the pump-out requirements successfully.

Yours truly,

Craig Williams, Sanitarian

cc: Barkley  
WRF Plumbing

✓ file

(INFO COMMUNICATED  
TO VICKI AT  
WRF)

from the desk of . . .

**TIMOTHY S. BARKLEY, SR., ESQUIRE**

Date: 3/31

Re: Recorded Agreement for  
Holding Tanks

Dear Mrs. Smith:

I have enclosed the attached item for your information and/or action. Please review it carefully, as it is relevant to our representation of you.

- No action on your part is necessary.
- Please sign it where indicated and return it to me in the enclosed envelope.

This is original recorded document which is yours.  
We have made a copy for our files.

If you have any questions or concerns, please do not hesitate to telephone me. As always, it is my pleasure to serve you.

Thank you for your kind and prompt attention to this matter.

*Tim*

The Tim Barkley Law Offices,  
A Professional Legal Service Corporation  
Post Office Box 670, Mt. Airy, Maryland 21771-0670  
[www.farmlaw.com](http://www.farmlaw.com)

1512 Ridgeside Drive, Ste. 202, Mt. Airy  
10480 Little Patuxent Pkwy., Ste. 400, Columbia  
[farmertim@farmlaw.com](mailto:farmertim@farmlaw.com)

(301) 829-3778  
(410) 489-7899  
Fax (301) 829-3784

MS. SMITH  
SIGNED AGREEMENT  
RETURNED TO YOU FOR  
RECORDATION.  
CAN BE ISSUED  
EVIDENCE THAT  
AND PAYMENT OF  
UPON HOLDING TANK PERMIT  
IT HAS BEEN RECORDED  
SEPTIC REPAIR PERMIT  
FEE (\$25)  
TO THIS  
OFFICE.



11/23/98  
Craig Williams

**HOWARD COUNTY HEALTH DEPARTMENT**

Joyce M. Boyd, M.D., County Health Officer

November 9, 1998

Evelyn Smith  
417 Twin Arch Rd  
Mt Airy, Md. 21771

Dear Ms. Smith,

On November 5, 1998 I met you, your son Junior, and your septic system contractor W.R.F. Plumbing to consider septic system options for the above referenced property.

This is an occupied residence served by a well, but currently without indoor facilities. Prior percolation test history for the property was unsuccessful. The intent of the meeting was to determine if there were portions of the property which merited further evaluation.

With Junior's assistance, the property was represented to be larger than had previously assumed, and differed in shape from the boundary configuration published in the county tax map. However, the additional property area did not, in anyone's judgement, seem likely to produce percolation test results any better than previously encountered.

A septic holding tank was recommended as the most reasonable option for providing wastewater handling service to the property. A model septic holding tank agreement was delivered to you the next day.

If you wish to proceed with this type proposal, please complete the agreement and return it to this office for Health Department signature. After signature, it will be returned to you for recording with the property deed. Then a permit can be issued for holding tank installation.

Please contact me at this office if you have any additional questions about this matter.

Yours truly,

Craig Williams, Sanitarian

cc: WRF plumbing

CONSENT AGREEMENT FOR USE OF HOLDING TANKS  
TO PROVIDE SERVICE FOR A PREVIOUSLY UNPLUMBED RESIDENCE

THIS AGREEMENT made this NOV day of SIXTEENTH,  
19 98, by and between EVELYN I SMITH & ROY SYLVESTER SMITH JR.

HEREINAFTER REFERRED TO AS Owner, and the Howard County Bureau of  
Environmental Health, HEREINAFTER REFERRED TO AS the Bureau.

WHEREAS, Owner is seized and possessed of a tract of land at  
address 417 TWIN ARCH RD MT AIRY, MD (HOWARD CO),  
known as Tax Map 1 Grid 18 Parcel 11 Lot 417, the  
deed to same being recorded among the land records of Howard  
County, Maryland, in Liber WHH 418, Folio 309.

WHEREAS, the Howard County Bureau of Environmental Health has  
ordered the Owner to correct the on-site sewage disposal problems  
and all parties concerned recognize the only alternative available  
is a holding tank.

WHEREAS, Owner's land meets requirements of COMAR 26.04.02 and  
Policy Directive R.S. #7 for installation of a holding tank.

THEREFORE, the parties hereto agree as follows:

RECEIVED  
HOWARD COUNTY HEALTH DEPT  
ENVIRONMENTAL HEALTH  
1998 NOV 18 PM 4:06  
NOW

- A. The Owner will install a holding tank consistent with the design approved and permitted by the Bureau and follow the provision of Policy Directive R.S. #7 issued May 20, 1987.
- B. Owner agrees to insure reasonable access to the property and system by the Bureau as well as to provide any information requested by the Bureau to assure proper operation and maintenance of the Holding Tank.
- C. Owner agrees that there shall be no liability on the part of the County or Bureau to Owner if the Holding Tank is not properly maintained.
- D. Owner acknowledges and agrees that neither the Bureau nor any of its agents or employees, either officially or individually underwrites the operation of the Holding Tank and it is understood that the Holding Tank is a last resort method to correct existing sewage disposal problems on the property.
- E. The Owner will devote such care and effort to the maintenance of the Holding Tank so that is shall not

malfunction and cause pollution at the ground surface,  
the waters of the state, or create a nuisance.

F. The Owner agrees that he shall not alter or tamper with  
the Holding Tank in anyway that would cause it to  
malfunction or change it from it's extended purpose of  
sewage storage with the sewage disposal being accomplished  
by a permitted scavenger.

G. The Owner agrees that, should the Holding Tank be  
determined to pose a threat to the public health, safety  
or comfort, the Bureau may order any necessary changes or  
corrections for which the Owner agrees to pay. System  
modifications may include requirements for additional  
tanks and/or more frequent pumping of the holding tank(s).

H. The Owner understands that if violations occur from  
failure to maintain the Holding Tank properly, the  
Bureau may take legal action to insure compliance.

I. The Owner shall contact the Howard County Bureau of  
Environmental Health at least 24 hours prior to system

the public health, safety or comfort or to issue any other orders or take any other action which is now or may hereafter be within its authority.

- L. Owner certifies that he has obtained a cost estimate and is financially capable of having the sewage removed from the Holding Tank by a permitted sewage waste hauler on a regular basis so that the Holding Tank never overflows. The Owner further agrees to enter into and maintain a written service contract which will be renewed annually with any permitted scavenger and will forward a copy to the Bureau prior to the approval of the permit for the Holding Tank installation and annually thereafter.
- M. If the Owner installs any new plumbing, he shall install only water conserving fixtures. (e.g. toilets installed will use no more than 1 1/2 gallons of water per flush).
- N. The Owner shall not perform any renovations or remodeling which enlarges the living space of the residence. Room additions necessary to provide bathroom facilities to

completion so that the Bureau may inspect the system in the field with the installer. The Owner further agrees that this system will be installed according to the plans and specifications approved by the Bureau and any changes determined to be necessary by the Bureau as a result of reviewing the field conditions.

- J. This agreement shall run with the land and binds the owner, his heirs, successors or assigns to the provisions of the agreement as long as the property is in existence. Owner further agrees that she shall inform any purchaser or lessee of the property of the Holding Tank and all conditions in association with it.
- K. Owner agrees to record this agreement in the land records of Howard County and assure that it become a part of the Deed for the subject property in order that prospective buyers may be made aware of the special conditions affecting this property. This agreement shall not be construed to limit any authority of the Bureau to protect

accommodate installation of indoor plumbing are not prohibited.

- O. The approval of a Holding Tank system provided for in this agreement is only for an interim period until public sewerage facilities become available, at which time the Owner shall connect the house to the public facilities and shall properly abandon and backfill the Holding Tank.
- P. The Owner shall provide notice of continuous pumping of the tank by a licensed scavenger as evidenced by submitting copies of pumping receipts to the Bureau on a quarterly basis.

WITNESS, the hand and seal of the parties hereto.

DATE: Nov 16, 1998 OWNER: Evelyn Smith

DATE: NOV 16, 1998 OWNER: [Signature]

DATE: Nov 18, 1998 Craig Wilhoit  
Sanitarian, Howard County  
Bureau of Environmental Health

DATE: NOV 20, 1998 Frank Shuman  
Director, Howard County Bureau  
of Environmental Health

DATE: \_\_\_\_\_